

MARINE CORPS WARFIGHTING LABORATORY

Project Albert is being developed to support decision makers in meaningful ways through modeling, analysis and new ways of combining them to include important phenomena inadequately represented by current techniques.

Description: Project Albert was chartered in 1998 by Congress with the vision to address the needs of military decision makers not supported by traditional methods. The project's vision includes strong interdisciplinary, collaborative teams to include Joint and coalition partners to attempt to address previously unanswered questions relevant to success in warfare.

Project Albert parallels the transformation effort in that it is a sustained, iterative and dynamic process that develops and integrates new concepts, processes, technologies and organizational designs. The focus of effort is intended to leverage high-performance computing in innovative ways to understand the large number of possibilities that confront military decision makers in the changing global environment.

The project has developed new models, modeling and simulation techniques and visualization advancements. Fast-running, transparent, intuitive simulations called "distillations" are employed to address the essence of the questions at hand. Because they run quickly, a large portion of the space of possibilities can be explored throughout the mission space by a process invented and developed within Project Albert called "Data Farming."

The project has capitalized on Joint and international relationships to form consortiums of warfare scientists leveraging the experience of the Marine Corps, other Services, Department of Defense agencies and coalition partners including Germany, Sweden and Australia.

The project was moved to the Lab in 2002 and has pursued the application of still-developing capabilities. Initiatives are looking to integrate capabilities into command centers to supplement simulation

PROJECT ALBERT

fact sheet



requirements. Current ideas include incorporating data from the common operating picture into simulations to conduct course-of-action analysis. Other areas of potential application include military operations on urban terrain, homeland defense, non-lethal weapons, logistics, force protection and uninhabited vehicles.

Near-term Application Focus Areas:

- a. Command and Control
- b. Future Infantry Battalion
- c. Global War on Terrorism

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